

500

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/523,055

Source: PG/10

Date Processed by STIC: 2/11/05

# ***ENTERED***



PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/523,055

DATE: 02/11/2005  
TIME: 16:20:19

Input Set : A:\seqlist.txt  
Output Set: N:\CRF4\02112005\J523055.raw

4 <110> APPLICANT: BIEMANS, Ralph  
5 DENOEL, Philippe  
6 FERON, Christiane  
7 GORAJ, Carine  
8 JENNINGS, Michael Paul  
9 POOLMAN, Jan  
10 WEYNANTS, Vincent  
12 <120> TITLE OF INVENTION: VACCINE COMPOSITION COMPRISING  
13 LIPOOLIGOSACCHARIDE WITH REDUCED PHASE VARIABILITY  
16 <130> FILE REFERENCE: B45309  
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/523,055  
19 <141> CURRENT FILING DATE: 2005-02-02  
21 <150> PRIOR APPLICATION NUMBER: PCT/EP03/008569  
22 <151> PRIOR FILING DATE: 2003-07-31  
24 <150> PRIOR APPLICATION NUMBER: GB 0218037.0  
25 <151> PRIOR FILING DATE: 2002-08-02  
27 <150> PRIOR APPLICATION NUMBER: GB 0218036.2  
28 <151> PRIOR FILING DATE: 2002-08-02  
30 <150> PRIOR APPLICATION NUMBER: GB 0218035.4  
31 <151> PRIOR FILING DATE: 2002-08-02  
33 <150> PRIOR APPLICATION NUMBER: GB 0218051.1  
34 <151> PRIOR FILING DATE: 2002-08-02  
36 <150> PRIOR APPLICATION NUMBER: GB 0220197.8  
37 <151> PRIOR FILING DATE: 2002-08-30  
39 <150> PRIOR APPLICATION NUMBER: GB 0220199.4  
40 <151> PRIOR FILING DATE: 2002-08-30  
42 <150> PRIOR APPLICATION NUMBER: GB 0225524.8  
43 <151> PRIOR FILING DATE: 2002-11-01  
45 <150> PRIOR APPLICATION NUMBER: GB 0225531.3  
46 <151> PRIOR FILING DATE: 2002-11-01  
48 <150> PRIOR APPLICATION NUMBER: GB 0230164.6  
49 <151> PRIOR FILING DATE: 2002-12-24  
51 <150> PRIOR APPLICATION NUMBER: GB 0230168.7  
52 <151> PRIOR FILING DATE: 2002-12-24  
54 <150> PRIOR APPLICATION NUMBER: GB 0230170.3  
55 <151> PRIOR FILING DATE: 2002-12-24  
57 <150> PRIOR APPLICATION NUMBER: GB 0305028.3  
58 <151> PRIOR FILING DATE: 2003-03-05  
62 <160> NUMBER OF SEQ ID NOS: 13  
64 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
66 <210> SEQ ID NO: 1  
67 <211> LENGTH: 25  
68 <212> TYPE: DNA

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69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: primer
74 <400> SEQUENCE: 1                                25
75 ccttttagtca gcgtattgat ttgcg
77 <210> SEQ ID NO: 2
78 <211> LENGTH: 39
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: primer
85 <400> SEQUENCE: 2                                39
86 atcgggtgcgc gcaatatatt ccgactttgc caattcatc
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 25
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: primer
96 <400> SEQUENCE: 3                                25
97 cgatgatgct gcggtctttt tccat
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 22
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: primer
107 <400> SEQUENCE: 4                                22
108 atgaagctca aaatagacat tg
110 <210> SEQ ID NO: 5
111 <211> LENGTH: 27
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: primer
118 <400> SEQUENCE: 5                                27
119 atctgcgggc ggcggcgcgga cttggat
121 <210> SEQ ID NO: 6
122 <211> LENGTH: 32
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: primer
129 <400> SEQUENCE: 6                                32
130 gaattcggat ccaactgatt gtggcgcatc cc
132 <210> SEQ ID NO: 7
133 <211> LENGTH: 45
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence

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```

137 <220> FEATURE:
138 <223> OTHER INFORMATION: primer
140 <400> SEQUENCE: 7
141 tgccgtctga agacttcaga cggtttatgc ggatgccagc atgtc 45
143 <210> SEQ ID NO: 8
144 <211> LENGTH: 11
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: primer
151 <400> SEQUENCE: 8 11
152 cgccgcccgc c
154 <210> SEQ ID NO: 9
155 <211> LENGTH: 20
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: primer
162 <400> SEQUENCE: 9 20
163 aaccgttttc ctattcccat
165 <210> SEQ ID NO: 10
166 <211> LENGTH: 21
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: primer
173 <400> SEQUENCE: 10 21
174 caccgatatg cccgaactct a
176 <210> SEQ ID NO: 11
177 <211> LENGTH: 18
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: primer
184 <400> SEQUENCE: 11 18
185 caccgcaaaa ctgattgt
187 <210> SEQ ID NO: 12
188 <211> LENGTH: 680
189 <212> TYPE: DNA
190 <213> ORGANISM: Neisseria meningitidis
192 <400> SEQUENCE: 12
193 atgaagctca aaatagacat tgcaaccagc aacttcaaac acggcggcgg caccggaacgc 60
194 tacacattgg atttggtaaa gggctctgaac agacaaaaca tcacaccggc cgtttatgcg 120
195 acgaaatttg atcacggcat tcctgaatac gccatgatcg aaccccatct tgtcgatcaa 180
196 caccggacgc tgaaaaaact acgcccattc ctcttttcaa gccggtcac tcaaaccaga 240
197 aaaaacagtg ccgcaaaact gattgcctgc caccacgccg attacgccga cctcctcatc 300
198 tgcggcggca cacacttggg ctacctgcac catatggcgc aaaaaccgaa cctgctcgac 360
199 cgctctcgca tacgccgtaa ccgcagcaac tacgccaccg ccaaactgat tatggcgcat 420
200 tcccatatga tgcggtgcga actggtcgga ctgtacggcg ttccccctga aagaatccaa 480

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```

201 gtcgcccccc ccccgcgaga tacggaacgc ttcttcccgc aacccggaga agctgcccgc 540
202 ctgcgcgcca aatacggctt tgccgactat gaaaccgttt tcctgttccc atcgaccggc 600
203 cacacgcgca aaggtctgga actgcttgcc gactttttcg aacataaccg cctgcccgtc 660
204 aagctcgccg ttgtcggctc 680
206 <210> SEQ ID NO: 13
207 <211> LENGTH: 680
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Neisseria meningitidis strain MC58 mutant "fixed"
213     lgtG open reading frame
215 <400> SEQUENCE: 13
216 atgaagctca aaatagacat tgcaaccaac aacttcaaac acggcgggcg caccggaacgc 60
217 tacacattgg atttggtaaa gggctgaac agacaaaaca tcacaccggc cgtttatgcg 120
218 acgaaatttg atcacggcat tcctgaatac gccatgatcg aaccccatct tgtcgatcaa 180
219 caccggacgc tgaaaaaact acgcccattc ctcttttcaa gccgggtcac tcaaaccaga 240
220 aaaaacagtg ccgccaaact gattgctgc caccacgccc attacgccga cctcctcatc 300
221 tgcgggcgga cacacttggg ctacctgcac catatggcgc aaaaaccgaa cctgctcgac 360
222 cgctcgcca tacgcccgtaa ccgcagcaac tacgccaccg ccaaactgat tatggcgcat 420
223 tcccatatga tgcggtgcga actggtcgga ctgtacggcg ttccccctga aagaatccaa 480
224 gtcgcgccgc cgcccgcgaga tacggaacgc ttcttcccgc aacccggaga agctgcccgc 540
225 ctgcgcgcca aatacggctt tgccgactat gaaaccgttt tcctgttccc atcgaccggc 600
226 cacacgcgca aaggtctgga actgcttgcc gactttttcg aacataaccg cctgcccgtc 660
227 aagctcgccg ttgtcggctc 680

```

VERIFICATION SUMMARY

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L:18 M:270 C: Current Application Number differs, Replaced Current Application Number